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| Unit 5: Electrochemistry Grade 12 Chemistry (SCH4U) | | |
| **Lesson Sequence** | **Lesson Plan Title** | **Names** |
| Lesson 1 | Introduction :  What is electrochemistry?  Redox reactions | Bushra Anwar  Olwen Needham-Brooks |
| Lesson 3 | Balancing Redox Reactions using the Oxidation Number Method | Scott Jaspers-Fayer  Daniel Fiorella |
| **Rationale:** Lessons 1 and 3 are at the beginning of the unit plan and provide the basic fundamental structure for more advanced concepts like the galvanic cell and STSE applications. Lesson 1 introduces us to the key terms which will be used throughout the unit. Understanding and using key terms is an important part of science focusing on communication; an important aspect of presenting, understanding and progressing through the material. The use of the zinc strip in the copper sulfate solution gives the students a visual of what is going on during the redox process and gets them to think about what is actually going on.  Lesson 3 looks at the balancing of equations using the oxidation number method. Understanding the importance of balancing is critical in understanding the chemical processes used in everyday life. Lesson 3 utilizes the team effort to understand and balance complex redox reactions. The team component allows students to build on their knowledge and understanding, and communication skills.  Each of these lessons targets important specific expectations presented by the ministry which in turn relates to a greater overarching theme of electrochemistry. | | |